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SEALING DEVICE FOR BEARING FOR WATER PUMP

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ABSTRACT

PURPOSE: To prevent moisture from entering a bearing with a simple structure and a small cost.

CONSTITUTION: A rolling body is arranged in a annular space between an outer ring 4 fixed to a static member and a rotary **shaft** 1 which is provided with an impeller on one side, a driving pulley on the other side, and rotated in one direction. A **seal** member 7 is fixed to an end of the outer ring 4 and in a sliding contact with the rotary **shaft** 1 for sealing the circular space. In such a sealing device of a **bearing** for a water pump, branched **seal** lips 7a, 7b are formed on a sliding contact end of the **seal** member 7 which is in sliding contact with the rotary **shaft** 1. A pumping function generating groove 8 or a rib is formed on the surface of the rotary **shaft** 1 at its position which is in sliding contact with the outer **seal** tip 7a, or the rear surface of the **seal** lip, in the direction for discharging moisture outward of the **bearing** during rotation of the rotary **shaft** 1.

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